



DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 688 140 A (LAI CHING-HO ET AL) 18 November 1997 (1997-11-18)	3	H05K7/10 H01R12/04
Y	* abstract *	4	H01R12/22
A	* column 4, line 66 - column 5, line 47 * * figure 6 *	1,2	H01R13/24

Y	US 4 857 001 A (ICHIMURA YOSHIAKI ET AL) 15 August 1989 (1989-08-15)	4	
A	* abstract * * column 5, line 13 - line 41 * * column 6, line 62 - column 7, line 2 * * figures 3,4 *	1-3	

A	US 6 299 492 B1 (PIERINI JOHN M ET AL) 9 October 2001 (2001-10-09) * column 8, line 34 - line 37 * * figures 5,7,9 *	3	

A	US 6 164 978 A (HSIAO SHIH-WEI ET AL) 26 December 2000 (2000-12-26) * abstract * * figure 5 *	1-4	

A	US 2002/111052 A1 (TETSUKA YOSHIHIRO ET AL) 15 August 2002 (2002-08-15) * abstract * * figures 1,3,6 *	1-3	H05K H01R

The present search report has been drawn up for all claims			

6

Place of search

MUNICH

Date of completion of the search

10 December 2003

Examiner

Chelbosu, L

CATEGORY OF CITED DOCUMENTS

- X : particularly relevant if taken alone
- Y : particularly relevant if combined with another document of the same category
- A : technological background
- O : non-written disclosure
- P : intermediate document

T : theory or principle underlying the invention

E : earlier patent document, but published on, or after the filing date

D : document cited in the application

L : document cited for other reasons

& : member of the same patent family, corresponding document



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1,2

LGA socket contact with the elastic contact part which extends via a bent part from a side wall of the base plate part

2. Claims: 3,4

LGA socket contact with a slit in the centre of the plate part

The common concept linking together the two inventions of the present application is

a land grid array (LGA) socket contact comprising a base plate part, in which anchoring projection are formed on the side walls, an elastic contact part which has a contact part on its tip end for contacting a contact pad of an integrated circuit (IC) package with a curved surface, said socket contact further comprising a board connecting part which extends from a lower end of the base plate part, and which is connectable by soldering to a circuit board.

This common concept is not novel because it is disclosed in document D1 cited in the Search Report (see, for example, fig. 6).

There is furthermore no technical relationship among the inventions of the present application involving one or more corresponding special technical features, according to Rule 30 EPC.

Hence the Examining Division considers that the following separate inventions or groups of inventions are not so linked as to form a single general inventive concept.



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 25 5558

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-12-2003

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5688140	A	18-11-1997	NONE			
US 4857001	A	15-08-1989	JP JP JP FR	1192847 C 57111969 A 58026152 B 2494505 A1		29-02-1984 12-07-1982 01-06-1983 21-05-1982
US 6299492	B1	09-10-2001	US	2001039154 A1		08-11-2001
US 6164978	A	26-12-2000	CN CN TW	1291807 A ,B 2417580 U 443642 Y		18-04-2001 31-01-2001 23-06-2001
US 2002111052	A1	15-08-2002	JP TW	2002231401 A 534504 Y		16-08-2002 21-05-2003